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ABSTRACT

This courseware evaluation rates the "Safety Measures with Communicable Diseases" program developed by Lane Community College in Eugene, Oregon. (This program--not contained in this document--is designed to teach means of preventing the spread of communicable respiratory diseases and ways of protecting oneself.) Part A describes the program in terms of subject area (allied health, nursing) and hardware requirements (Apple II+, IIe, IIc), indicates its suitability for use as a tutorial for grades 11-adult, and gives a time estimate for use (30 minutes). Availability information includes cost ($5.00), loan policy (4 weeks), and address of the seller, the Oregon Department of Education. Part B contains the evaluation criteria in eight categories; reviewer ratings appear as yes, somewhat, no, and not applicable, with explanatory comments. Part C summarizes the evaluation. This courseware received overall ratings of "yes" in the categories of subject matter, technical presentation, program interaction, and documentation; and "somewhat" for student interaction and student evaluation. Work behavior and applications programs were not applicable. The program is recommended for use as a tutorial. (SK)

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ED271570

SAFETY MEASURES WITH
COMMUNICABLE DISEASES

# COURSEWARE EVALUATION

# FOR

# VOCATIONAL AND TECHNICAL EDUCATION

The evaluation of this courseware program was conducted by a team participating in the Courseware Evaluation Network. The Network, established in 1985, is coordinated by the National Center for Research in Vocational Education under the sponsorship of the U.S. Department of Education, Office of Vocational and Adult Education. The purpose of the Network is to identify and evaluate microcomputer courseware, and to disseminate courseware reviews for vocational and technical education.

Each Network team includes three members, at least one of which is, or recently has been, a vocational or technical teacher in the subject matter area of the courseware being evaluated. The evaluation represents a synthesis of the opinions of the team members. It is suggested that the evaluation be used as a first screening device for courseware and that the teacher also evaluate the courseware program on the basis of specific student needs.

The Courseware Evaluation: Form and Guide used for all of the Network evaluations was developed by the National Center and is available through its cost-recovery system.

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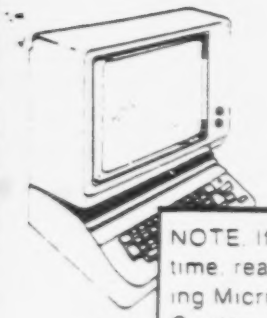



# COURSEWARE EVALUATION FORM

NOTE: If you are using this form for the first time, read the instructions in the accompanying Microcomputer Courseware Evaluation Guide.

Evaluator: Stephen Yarbrough
Position: Curriculum Specialist
Date: May 16, 1986

## Part A: Courseware Description

In the following sections, record descriptive information about the courseware that you are evaluating.

I. IDENTIFICATION

Program Title: Safety Measures with Communicable Diseases Date: 1982

Series Title: CAI: Health Occupations.

Vocational Area(s): Health

Subject Area(s): Allied Health

Topic(s): Nursing

Developing Agency: Lane Community College

Street or P O Box: 4000 East 30th Avenue

City: Eugene, State: OR Zip: 97405 Phone: (503) 747-4501

Author(s): Fisher, Carolyn

Programmer(s): James, Michael A.

II. HARDWARE REQUIREMENTS

Microcomputer*: Apple II+, IIe, IIc
(brand/model)

K Memory Required: 48K
(number)

Medium of Transfer (include number of each):

- ___ Tape cassette
- ___ ROM cartridge
- 1 5¼" Flexible disk
- ___ 8" Flexible disk
- ___ Other ___ (specify)

Programming Language: ___ DOS Specifications: ___

Other Specifications: ___

Peripherals Needed (check all that apply):

- ___ Color monitor
- X One disk drive
- ___ Two disk drives
- ___ Plotter
- ___ Game paddle(s)
- ___ Joystick(s)
- ___ Modem
- ___ Mouse
- ___ Printer
- ___ Graphics tablet
- ___ Light pen
- ___ Voice/sound instrument
- ___ Clock
- ___ Video disk
- ___ Touch screen
- ___ Ten-key number pad
- ___ Other ___ (specify)

*NOTE: Provide the above information for any additional hardware on which this program can be used. ___

Part A: Courseware Description

III. PROGRAM FEATURES (check all that apply):

__ Network version provided
__ Multiple copies required
__ Program can be modified
__ Program protected
__ Data disk needed
__ Field-test data available

IV. INSTRUCTIONAL SETTING

Program mode (check all that apply):

__ Application
__ Drill and practice
__ Educational gaming
__ Simulation
X Tutorial
__ Other _____ (specify)

Student Target Population (check all that apply):

X Regular
__ Disadvantaged
__ Handicapped
__ Limited English
__ Bilingual
__ Gifted

Grade Level (check all that apply):

__ K-6
__ 7-8
__ 9-10
X 11-12
X 13-14
X Adult
__ Higher Education

Instructional Grouping (check all that apply):

X Individual
__ Small group (up to 4)
__ Large group (4 or more)
__ competitive interaction
__ cooperative interaction

Prerequisite Student Skills (specify) _____

Accompanying Materials (specify types):

Documentation One page.

Student support materials _____

Teacher support materials _____

Correlated materials _____

Estimated Time for Use Thirty minutes.

V. AVAILABILITY

__ Free _____ (copies)

X Sale $5.00

__ Rent $_____ _____ (time)

X Loan 4 weeks (time)

X Duplication (requestor supplies disk)

Copyright Restrictions (explain) Copyrighted by the Oregon Department of Education; may copy with permission.

Back-up Policy (explain) _____

Preview Policy (explain) _____

Update Policy (explain) _____

Contact Division of Vocational Education, Oregon Department of Education

Street or P.O. Box 700 Pringle Parkway SE

City Salem, State OR Zip 97310 Phone (503) 378-2213

## Part B: Courseware Evaluation Criteria

Indicate the applicability of each section to the courseware being evaluated by checking either "__ A" (applicable) or "__ N/A" (not applicable). If a section is not applicable, proceed to the next section. If a section is applicable, check the column that indicates how well the courseware meets each criterion. Include any comments.

| | YES | SOME-WHAT | NO | N/A | COMMENTS |
|---|---|---|---|---|---|
| I. SUBJECT MATTER X A __ N/A | | | | | |
| 1. Subject matter has educational value. | x | | | | |
| 2. Student objectives are stated. | x | | | | |
| 3. Subject matter is accurate. | x | | | | |
| 4. Subject matter is logically presented. | x | | | | |
| 5. Subject matter is free of race, ethnic, sex, and other stereotypes. | x | | | | |
| 6. Subject matter is on the level of the students. | x | | | | |
| 7. Information and skills presented are comparable to those used in the home, business, or industry. | x | | | | |
| 8. Subject matter motivates students to learn. | | x | | | |
| 9. Subject matter is reviewed and summarized. | | x | | | |
| 10. Program utilizes the unique capabilities of the microcomputer to present the subject matter. | x | | | | |
| II. TECHNICAL PRESENTATION X A __ N/A | | | | | |
| 1. Program is free of technical problems. | x | | | | |
| 2. Presentation rate is adequate to maintain interest. | x | | | | |
| 3. Information on the screen is easy to read. | x | | | | |
| 4. Program is free of spelling and grammatical errors. | x | | | | |
| 5. Program instructions are easy to follow. | | x | | | 1 spelling error |
| 6. Color increases the instructional value of the program. | x | | | | |
| 7. Audio increases the instructional value of the program. | x | | | | |
| 8. Graphics increase the instructional value of the program. | x | | | | |

| | YES | SOME-WHAT | NO | N/A | COMMENTS |
|---|---|---|---|---|---|
| III STUDENT INTERACTION X A ___ N/A | | | | | |
| 1. Students can use the program with minimal assistance. | x | | | | |
| 2. Students are actively involved in the program. | x | | | | |
| 3. Students control the pace of the program. | | x | | | |
| 4. Students can access the program "menu(s)" to change activities. | | | x | | |
| 5. Students are permitted to change answers. | x | | | | |
| 6. Methods of responding correspond to the level of the program. | x | | | | |
| 7. Students' errors of entry are processed so that the program continues to run. | x | | | | |
| 8. Students can access available "help" and "hint" options at any time. | | | x | | |
| 9. Students can enter or exit the program as desired. | | | x | | |
| 10. Students control the sequence of the program | | | x | | |
| IV PROGRAM INTERACTION X A ___ N/A | | | | | |
| 1. Feedback is immediate. | x | | | | |
| 2. Cues and prompts are provided to assist students in answering correctly | x | | | | |
| 3. Feedback reinforces the correct responses. | x | | | | |
| 4. Feedback is nonthreatening. | x | | | | |
| 5. Program helps students understand wrong answers. | x | | | | |
| 6. Program gives the correct answer after a reasonable number of tries. | x | | | | |
| 7. Positive reinforcement is varied. | x | | | | |
| 8. Program has the ability to branch/loop depending upon students' performance. | | | x | | |
| 9. Feedback is on the level of the student. | x | | | | |
| V STUDENT EVALUATION X A ___ N/A | | | | | |
| 1. Evaluation provides a means for measuring attainment of objectives. | x | | | | |
| 2. Program reports which items were missed and which were correct. | x | | | | |

| | YES | SOME-WHAT | NO | N/A | COMMENTS |
|---|---|---|---|---|---|
| V. STUDENT EVALUATION—*Continued* | | | | | |
| 3. Individual student performance results are available to the teacher. | | | x | | |
| 4. Class performance results are available to the teacher. | | | x | | |
| 5. Program provides for printed copies of evaluations. | | | x | | |
| 6. Test item formats are suited to the material being tested. | x | | | | |
| 7. Test items are clearly stated. | x | | | | |
| 8. Test item bank is provided. | | | x | | |
| VI. DOCUMENTATION x A ___ N/A | | | | | |
| 1. Documentation is easy to understand. | x | | | | |
| 2. Documentation is accurate. | x | | | | |
| 3. Student objectives are stated. | x | | | | in program and print |
| 4. Underlying concepts are outlined. | x | | | | |
| 5. Skills to be developed are specified. | | | x | | |
| 6. Procedures for integrating the program into the curriculum are provided. | | | x | | |
| 7. Follow-up activities are suggested. | | | x | | |
| 8. Documentation explains the intended use of support materials. | | | | x | |
| 9. Sufficient information is provided to operate the program. | x | | | | |
| VII. WORK BEHAVIORS ___ A x N/A | | | | | |
| 1. Program helps students identify their vocational skills. | | | | | |
| 2. Program promotes pride in work. | | | | | |
| 3. Program promotes productivity. | | | | | |
| 4. Program encourages good work habits. | | | | | |
| 5. Problem solving is encouraged. | | | | | |
| 6. Program promotes good human relations skills. | | | | | |
| 7. Program provides an opportunity for work satisfaction and self-fulfillment. | | | | | |
| 8. Program encourages creativity. | | | | | |



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| | YES | SOME-WHAT | NO | N/A | COMMENTS |
|---|---|---|---|---|---|
| VIII. APPLICATION PROGRAMS ___ A _X_ N/A (to be completed for application programs only) | | | | | |
| 1. Program is adaptable to the needs of the student. | | | | | |
| 2. Commands are easily remembered. | | | | | |
| 3. Information is easily manipulated. | | | | | |
| 4. Corrections are easy to make. | | | | | |
| 5. Program includes all necessary variables. | | | | | |
| 6. Program performs reliably. | | | | | |
| 7. Program efficiently achieves its intended purpose. | | | | | |
| 8. Trial data are supplied for learning to run the program. | | | | | |
| 9. Program provides for use of printer when hard copy of information is advantageous. | | | | | |
| 10. Program moves from operation to operation efficiently. | | | | | |
| 11. Program is compatible with other application programs. | | | | | |
| 12. Program has a supplementary tutorial program available. | | | | | |



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## Part C: Courseware Evaluation Summary

1. SUMMARY COMMENTS

Identify strengths of the courseware:

Identify weaknesses of the courseware:

Describe uses of the courseware in an instructional setting:

2. SUMMARY OF SECTION

Rate the quality of the courseware for each applicable section of this form by checking the appropriate column; if not applicable, check N/A.

| | YES | SOME-WHAT | NO | N/A |
|---|---|---|---|---|
| I. SUBJECT MATTER: Content has educational value. | x | | | |
| II. TECHNICAL PRESENTATION: Program is free of malfunctions. | x | | | |
| III. STUDENT INTERACTION: Students are actively involved with the program. | | x | | |
| IV. PROGRAM INTERACTION: Feedback is effectively employed. | X | | | |
| V. STUDENT EVALUATION: Evaluation adequately measures student progress. | | x | | |
| VI. DOCUMENTATION: Documentation is sufficient to run the program. | x | | | |
| VII. WORK BEHAVIORS: Program assists students in developing positive work attitudes and skills. | | | | x |
| VIII. APPLICATION PROGRAMS: Program performs the task for which it is intended. | | | | x |

3. FINAL RECOMMENDATION

Check your recommendation for the courseware and explain your reasons below:

___ Highly recommend
___ Recommend with reservations
_x_ Recommend
___ Do not recommend

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|---|---|---|
| • Microcomputer Courseware Evaluation: Form and Guide for Vocational and Technical Education | SN 44 | $2.50 |

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Microcomputer Courseware Evaluation Guide: Form and Guide
for Vocational and Technical Education

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